

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Sharon L. Morris, R.N., and Dean E. Morris

DATE: October 4, 1996

SERIAL NO: 08/286,413                      GROUP ART UNIT: 2111

FILED: August 5, 1994                      EXAMINER: R. Gibson

FOR: "Automatic Surgical Sponge Counter and Blood Loss  
Determination System"

ATTORNEY DOCKET NO.: A94087US (51929/1)

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**DECLARATION OF ALEX MACARIO MD AND JOHN  
G. BROCK-UTNE MD UNDER 37 C.F.R. § 1.132**

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

We, the undersigned, hereby declare that we are familiar with the above-referenced invention as claimed in the claims presented in the Rule 116 Response dated September 24, 1996 filed in the above-referenced patent application.

We are academic anesthesiologists and have been working in the operating room suite for over 30 years combined. We teach residents and medical students, develop research projects, and provide clinical care. During our careers we have provided anesthesia for thousands of patients including sick neonates to cardiac surgery patients. One of our research interests has been how to educate practitioners about accurate blood loss determination. We have published data in the peer reviewed literature showing that even experienced physicians are

significantly inaccurate when trying to estimate the amount of blood lost during surgery. Unfortunately, there is no simple, risk free technology that accurately quantifies blood loss on sponges. The above-referenced invention attempts to solve the need for correct blood loss estimates which is particularly important for decision making regarding transfusion therapy.

The undersigned hereby declare that all statements made of our own knowledge are true and that all statements made on information and belief are believed to be true, and that this statement is made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

11/6/96

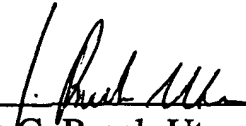
Date



Alex Macario MD  
Assistant Professor of Anesthesia  
Stanford University Medical Center  
Stanford, CA 94305

11/6/96

Date



John G. Brock-Utne MD PhD  
Professor of Anesthesia  
Stanford University Medical Center  
Stanford, CA 94305

51929001.DEC/sn

Curriculum vitae

**Alex Macario M.D., M.B.A**

**I. PERSONAL DATA**

**Office Address**

Department of Anesthesia  
Stanford University School of Medicine  
Stanford, California 94305-5115  
phone - (415) 723-6411  
fax - (415) 725-8544  
email - macario\_a@hosp.stanford.edu

**Home Address**

810 Tolman Drive  
Stanford CA 94305  
phone - (415) 813-1213

**Social Security Number**     036 - 44 - 0540  
**Marital Status**             wife - Susan; children - Samantha, Kevin  
**Date of Birth**                October 25, 1964

**II. EDUCATION**

|        |  |           |
|--------|--|-----------|
| M.D.   | University of Rochester, School of Medicine and Dentistry<br>Rochester, NY <i>With Distinction in Research</i>                                 | 1986-1990 |
| M.B.A. | University of Rochester, Simon Graduate School of Business<br>Administration     Rochester, NY<br>Major: Health Care Organizations and Markets | 1985-1988 |
| B.A.   | University of Rochester, College of Arts and Sciences<br>Rochester, NY <i>Sociology (Summa Cum Laude)</i>                                      | 1982-1986 |

**III. POSTDOCTORAL TRAINING**

|  |           |
|--|-----------|
| Research Fellow, Health Services Research<br>Departments of Anesthesiology and Health Research and Policy,<br>Stanford University School of Medicine, Stanford, CA | 1994-1995 |
| Chief Resident, Department of Anesthesiology<br>Stanford University Medical Center, Stanford, CA   | 1993-1994 |
| Resident, Department of Anesthesiology<br>Stanford University Medical Center, Stanford, CA   | 1991-1993 |

Intern, Department of Internal Medicine  
University of Pennsylvania, The Graduate Hospital, Philadelphia , PA 1990-1991

#### **IV. ACADEMIC APPOINTMENTS**

Assistant Professor, Department of Anesthesiology 9/1/96-  
Assistant Professor(courtesy), Department of Health Policy and Research  
Stanford University School of Medicine, Stanford, CA  
  
Acting Assistant Professor, Department of Anesthesiology 7/1/96-8/30/97  
Stanford University School of Medicine, Stanford, CA  
  
Clinical Assistant Professor, Department of Anesthesiology 7/1/95-6/30/96  
Stanford University School of Medicine, Stanford, CA

#### **V. CERTIFICATION and LICENSURE**

California medical license # A050514 1991  
Diplomate, American Board of Anesthesiology # 25578 1995

#### **VI. HONORS and AWARDS**

American Society of Anesthesiology Resident Research Essay - 1995  
Contest - Third Prize  
Chief Resident in Anesthesia 1994  
Valdes - Dapena Prize(The Graduate Hospital) 1991  
Joseph C. Wilson Scholar 1982-1987  
Tuition Scholarship(Business School) 1987-1988  
Phi Beta Kappa 1986  
College Graduation Speaker 1986  
Rigby - Wile Prize in Biology 1985

#### **VII. PROFESSIONAL ACTIVITIES**

##### **Hospital Appointments**

Staff Physician, Department of Anesthesiology 1995-1996  
Stanford University Hospital & L. S. Packard Children's Hospital, Stanford CA

## Stanford Health Services

|   |              |
|---|--------------|
| Operations Improvement - Operating Room Task Force    | 1995         |
| Anesthesia Care Review and Risk Management Committee  | 1994-present |
| Clinical Pathway Committee for Total Knee Replacement | 1994-present |

## Teaching(University)

|  |              |
|--|--------------|
| Co-Director, Fellowship in the Management of Perioperative Services                  | 1995-present |
| Faculty advisor for 1-2 anesthesia residents/year                                    | 1995-present |
| Developed and implemented:   |              |
| Seminar Series for Fellowship  | 1995-present |
| Health Services Research Bimonthly Journal Club                                      | 1994-95      |
| Management of the Difficult Airway: Anesthesia and Emergency Medicine Seminar Series | 1993-94      |

## Regional and National Committee Appointments

|   |           |
|---|-----------|
| California Society of Anesthesiology, Committee on Legislative and Practice Affairs | 1996-1997 |
| American Society of Anesthesiologists, Committee on Standards of Care               | 1993-1994 |
| California Society of Anesthesiology, Committee on Governmental Affairs             | 1992-1994 |
| American College of Physician Executives, Committee on Outcomes                     | 1992-1994 |

## University Committee Appointments

|   |           |
|---|-----------|
| Admissions Panel, Mbedical school                                     | 1996-     |
| Alwin C. Rambar Award Advisory Committee                              | 1993-1994 |
| Committee on Graduate Medical Education, Stanford University Hospital | 1993-1994 |
| Education Committee, Department of Anesthesia                         | 1993-1994 |

## Medical and Scientific Organizations

|  |              |
|--|--------------|
| Association of Anesthesia Clinical Directors | 1995-present |
| American College of Physician Executives     | 1992-present |
| California Medical Association               | 1991-present |
| California Society of Anesthesia             | 1991-present |
| American Society of Anesthesiology           | 1991-present |
| International Anesthesia Research Society    | 1991-present |
| American Medical Association                 | 1990-present |

## Editorial Service

|  |              |
|--|--------------|
| Consultant reviewer , Journal of Clinical Anesthesia | 1995-present |
| Consultant reviewer, Anesthesiology                  | 1995-present |

## Grant Support

|   |               |
|---|---------------|
| FDA Phase 3 Clinical trial for Dexmedetomidine<br>Co-investigator | 1/1/96-1/1/97 |
|---|---------------|

## VIII. INVITED PRESENTATIONS

|  |      |
|--|------|
| Know Your Costs<br>American Society of Anesthesiology, New Orleans, Louisiana  | 1996 |
| Hypothermia and Outcome in Surgical Patients<br>Bay Area Post Anesthesia Care Unit Nurses Association, Palo Alto, CA   | 1996 |
| What Does Anesthesia Really Cost? Association of Anesthesia Clinical<br>Directors, Atlanta, Georgia  | 1995 |
| Analysis of Hospital Costs and Charges for Inpatient Surgical Care.<br>American Society of Anesthesiology, Atlanta, Georgia  | 1995 |
| Pain Outcomes in Patients Undergoing Thoracotomy<br>International Anesthesia Research Society, Honolulu, Hawaii  | 1995 |
| Volume and Distribution of Inpatient Pediatric Anesthetics: Implications<br>for Policy and Credentialing. Western Anesthesia Resident's<br>Conference, Seattle, Washington | 1994 |
| Neuromuscular Blockade in Pediatric Anesthesia<br>Children's Hospital, Saigon, Vietnam   | 1994 |
| Spinal Versus Epidural Anesthesia for Cesarean Section: Economic<br>Implications. American Society of Anesthesiology, Washington, D.C.                                     | 1993 |
| Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical<br>Gauze Sponges. International Anesthesia Research Society, San Diego                              | 1993 |
| Esophageal Stethoscopes: Is There An Acoustic Difference Between the 12,<br>18, and 24F Sizes? Western Anesthesia Resident's Conference, Salt Lake City                    | 1992 |

## IX. BIBLIOGRAPHY

### Original Publications(refereed journals)

1. **Macario A.** Intrauterine Exposure To Cocaine - A Case Report and Current Thinking. *The Journal of the University of Rochester Medical Center* 1:28-30, 1989
2. **Macario A, Roizen M, Thisted R, Kim S, Orkin F, and Phelps C.** Reassessment of Preoperative Laboratory Testing Has Changed The Test-Ordering Patterns of Physicians. *Surgery, Gynecology, and Obstetrics* 175:539-547, 1992
3. **Riley E, Cohen S, Macario A, Desai J, Ratner E.** Spinal Versus Epidural Anesthesia for Cesarean Section: Comparison of Time Efficiency, Costs, Charges, and Complications. *Anesthesia and Analgesia* 80: 709-712, 1995
4. **Macario A, Chang P, Stempel D, Brock-Utne J.** A Cost Analysis of the Laryngeal Mask Airway For Adult Elective Outpatient Surgery. *Anesthesiology* 83:250-257, 1995
5. **Macario A, Hackel A, Gregory G, Forseth D.** The Demographics of Inpatient Pediatric Anesthesia Practice: Implications for Performance Based Credentialing. *Journal of Clinical Anesthesia* 7:507-511, 1995
6. **Brodsky J, Macario A, Cannon W, Mark J .** "Blind" Placement of Plastic Left Double-Lumen Tubes. *Anaesthesia and Intensive Care* 23:583-586, 1995
7. **Gaeta R, Macario A, Brodsky J, Brock-Utne J, Mark J.** Pain Outcomes After Thoracotomy: Lumbar Epidural Hydromorphone Versus Intrapleural Bupivacaine. *Journal of Cardiothoracic and Vascular Anesthesia* 9:534-537, 1995
8. **Macario A, Vitez T, Dunn B, McDonald T.** What Does Perioperative Care Really Cost? Analysis of Hospital Costs and Charges for Inpatient Surgical Care. *Anesthesiology* 83:1138-1144, 1995
9. **Brodsky J, Macario A, Mark J.** Tracheal Diameter Predicts Double Lumen Tube Size - A Method For Selecting Left Double-Lumen Tubes. *Anesthesia and Analgesia* 82:861-864, 1996
10. **Macario A, Vitez T, Dunn B, McDonald T, Brown B.** Hospital costs and severity of illness in three types of elective surgery. *Anesthesiology* (in press), 1996
11. **Vitez T, Wada D, Macario A.** Fuzzy Logic: Theory & Medical Applications. *Journal of Cardiothoracic and Vascular Anesthesia* 10:800-808, 1996

12. **Macario A**, Brock-Utne J, Dillingham M, Fanton G. Postoperative Epidural Saline Shortens PACU Stay For Knee Arthroscopy Patients. *Anesthesia and Analgesia*, (in press) 1996

### Books

**Macario A**, Lang A(editors): Health Economics and Practice Management in Anesthesia, International Anesthesia Clinics, Boston, Little Brown & Company, Fall, 1995

### Book Chapters

1. **Macario A**. Defining Value in Health Care: Outcomes. in **Macario A**, Lang A(eds): Health Economics and Practice Management in Anesthesia, *International Anesthesia Clinics*, 33:15-31, Little Brown & Company, Boston, Fall 1995
2. **Macario A**, Vitez T. Changing The Way Physicians Practice: An Important Step Toward Cost-efficient Clinical Practice: in Mailhot C, Slezak L(eds): *Management Training for Today's Operating Room*, 2:3-17, Medcom Inc, Cypress CA, 1996
3. Garman J, **Macario A**. Computers: A Practical Guide for Anesthesiologists. in Lake C, Rice L, Sperry R(eds): *Advances in Anesthesia(in press)*, Mosby - Year Book Inc., St. Louis, 1996
4. **Macario A**. Principles of cost accounting and costing a project.(in preparation) in Kingston H, Jones R(eds): *Business Skills for Health Care Providers*. Chapman & Hall Publishers, New York, 1996
5. Feeley T, **Macario A**. The post anesthesia care unit. In Miller R.(editor): *Anesthesia*, - 5<sup>th</sup> edition, Churchill Livingstone, NY, NY, 1996(in preparation).

### Invited Editorials

1. Dexter F, **Macario A**. Application of information systems to operating room scheduling *Anesthesiology*(in press), 1996
2. Fisher D, **Macario A**. Economics of anesthesia practice: a call to arms. *Anesthesiology*(in press), 1996

### Letters to Editor

1. **Macario A**, Brock-Utne J. Elimination of 12 and 24 French Esophageal Stethoscopes From Anesthetic Practice(An Attempt at Cost Containment). *Anesthesia and Analgesia* 79:393, 1994
2. **Macario A**. Costs of Inhaled Anesthetics. *Anesthesiology* 80:1405-1406, 1994



3. **Macario A, Brock-Utne J.** Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical Gauze Sponges. *Canadian Journal of Anesthesia* 41:1017-1018, 1994
4. **Macario A.** A Health Policy Perspective on Costs of Short-Term Anesthesia Services. *Journal of Clinical Anesthesia* 7:175, 1995
5. **Brodsky J, Macario A.** Modified Bronchocath Double-Lumen Tube. *Journal of Cardiothoracic and Vascular Anesthesia* 9:784-788, 1995
6. **Macario A, Ronquillo R, Brose W, Gaeta R.** Improved Outcome With a Continuous Infusion of Ondansetron for Intractable Nausea and Vomiting. *Anesthesia and Analgesia* 1996;83:194-195, 1996
7. **Macario A.** Modeling the cost-effectiveness of laparoscopic assisted vaginal hysterectomy. *NEJM* (submitted)

#### Refereed Abstracts

1. **Roizen M, Macario A, Thisted R, Sabnis L, Orkin F, and Phelps C.** A Tale of Three Cities - Has Reassessment of Preoperative Test Value Changed Physician Test-Ordering Patterns? *Anesthesiology* 71:34: A1188, 1989
2. **Roizen M, Macario A, Chmura J, Lichtor L, Soren A, Delisi M, Sabnis L, Thisted R., and Phelps C.** Change in Frequency of PreOp Test Ordering in Two Cities Over Time. *Anesthesia and Analgesia* 68:2S:S237, 1989
3. **Macario A, Brock-Utne J.** Anesthesiologists Overestimate Blood Loss on Both Dry and Wet Surgical Gauze Sponges. *Anesthesia and Analgesia* 76:2S:S232, 1993
4. **Hackel A, Macario A, Gregory G, Forseth D.** The Demographics of Inpatient Pediatric Anesthesia Practice: Implications For Performance Based Credentialing. *Anesthesiology* 79:3A:A1160, 1993
5. **Riley E, Cohen S, Macario A, Desai J, Ratner E.** Spinal Versus Epidural Anesthesia For Cesarean Section: Economic Implications. *Anesthesiology* 79:3A: A998, 1993
6. **Macario A, Gaeta R, Brodsky J, Mark J, Brock-Utne J.** A Randomized Clinical Trial Comparing Pain Outcomes After Lumbar Epidural Hydromorphone Versus Pleural Bupivacaine For Post-thoracotomy Analgesia. *Anesthesia and Analgesia* 80:S290, 1995
7. **Macario A, Dunn B, McDonald T, Vitez T.** What Does Perioperative Care Really Cost? Analysis of Hospital Costs and Charges for Inpatient Surgical Care. *Anesthesiology* A1270, 1995

8. **Macario A**, Brock-Utne J, Dillingham M, Fanton G. Postoperative Epidural Injection of Saline Hastens Time Ready for Discharge in Patients Undergoing Elective Knee Arthroscopy. *Anesthesiology* A13, 1995
9. Brose W, Angst M, **Macario A**, Harrapat S. Optimizing Treatment of Chronic Intractable Pain with Methadone: Empiric Oral Dosing Versus Computer Controlled Intravenous Titration. *Anesthesiology* A871, 1995
10. **Macario A**, Vitez T, Dunn B, McDonald T, Brown B. Severity of illness does not predict hospital costs for three types of elective surgery. *Anesthesiology* 85:A981, 1996
11. Hammer G, Pike N, Sulenski K, Bergman D, Krane E, Boltz G, Peterson K, **Macario A**, Robbins R, Reitz B. A critical pathway for the repair of atrial septal defects(ASD) reduces hospital costs and length of stay in children. (in press) Pediatric Intensive Care Society, 1996

#### **Work Submitted or in Progress**

1. **Macario A**, Vitez T, Horne M, Goodman S, Heinen R. Does a perioperative clinical pathway for knee replacement reduce hospital cost and length of stay?(manuscript in preparation), 1996
2. Vitez T, **Macario A**. Using statistical quality control to set performance standards for Anesthesia department services. (under review), 1996

**revised 10/29/96**

## CURRICULUM VITAE

JOHN G BROCK-UTNE, M.A., M.B., B.Ch., (T.C.D.), MD, PhD. (Bergen), F.F.A. (SA)

Date of Birth : 1 December 1939  
Place of Birth : Oslo, Norway  
Nationality : Norwegian  
Social Security : 556-49-8832

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Stanford, California 94305.  
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Facsimile (415) 856-4237

### EDUCATION

1956-1960 Molde Gymnasium, Molde, Norway  
1960 Norwegian Matriculation Certificate

### NATIONAL SERVICE

1960-1962 Signal Corps Norwegian Army

### MEDICAL EDUCATION

1962-1966 B.A., Trinity College, Dublin, Ireland  
1966-1968 M.B., B.Ch., B.A.O., Trinity College, Dublin, Ireland

### POSTGRADUATE EDUCATION AND PROFESSIONAL EXPERIENCE

1968-1969 Internship, Dr. Steven's Hospital, Dublin Ireland  
1969 (Aug-Dec.) Registrar, Psychiatry, Neevengarden Hospital, University of Bergen, Bergen, Norway  
1970 (Jan-June) General Practice, Sogndal, Norway  
1970 (July-June) House Officer, Department of Anaesthetics, Rikshospitalet University of Oslo, Oslo, Norway  
1971 (March) Registrar, Department of Anaesthetics, Rikshospitalet, University of Oslo, Oslo, Norway  
1971 (Sept) Registrar, Department of Medicine, Addington Hospital, Durban, South Africa  
1972 (March)-  
1975 (Feb) Registrar, Department of Anaesthetics, King Edward VIII Hospital, Durban, South Africa

## POSTGRADUATE QUALIFICATION

1969 M.D. (Candidate Medicine), Bergen, Norway  
1969 E.C.F.M.G.  
1969 M.A., Trinity College, Dublin, Ireland  
1973 Fellow of the Faculty of Anaesthetists, South Africa (F.F.A. S.A.), Primary.  
1974 Fellow of the Faculty of Anaesthetists, South Africa (F.F.A. S.A.), Finals.  
1977 F.L.E.X., Part I and Part 2 in California  
1981 PhD, Bergen, Norway

## APPOINTMENTS

1975 (Feb) Consultant Anaesthetist, King Edward VIII Hospital, Durban, South Africa  
1977 (Jan) Director of Anaesthetic Research, King Edward VIII Hospital, Durban, South Africa  
1977 (Sept)-  
1978 (Sept) Acting Assistant Professor, Department of Anesthesia, Stanford University School of Medicine, Stanford, California, U.S.A.  
1978 (Sept) Principal Anaesthetist, Senior Lecturer and Director of Anaesthetic Research, King Edward VIII Hospital, University of Natal, Durban, South Africa  
1981 (Jan) Professor & Head of Department of Physiology  
Part-time Consultant, Department of Anaesthetics,  
King Edward VIII Hospital, University of Natal, Durban, South Africa  
1989 to  
present Professor of Anesthesia (Clinical), Stanford University School of Medicine, Stanford, California, U.S.A.

## SCHOLARSHIPS AND AWARDS

1. Welland Pharmacology Prize - awarded by Trinity College Dublin 1965
2. Standard Bank South Africa, 1980 - Study on Hypertensive African patients.
3. "Best presentation" at Critical Care Society of Southern Africa, Annual Congress. May 1987, Port Elizabeth
4. "The Bunny Angorn" prize for best research paper at the Surgical Research Society of Southern Africa meeting (co-worker) (Abstract No. 117) 27 May 1988, Cape Town, South Africa.

## MEDICAL LICENSURE

1. General Medical Council of Great Britain (Irish Branch) No. 1356238, 1 July 1969
2. Norway - 22 June 1970
3. South Africa No. 13001, 20 October 1970
4. Specialist Registration in Anaesthesia, South Africa No. 4329, 17 October 1975
5. North Dakota, U.S.A. No. 4035, 24 February 1978

6. California, U.S.A. No. A 32932, 18 September 1978
7. Specialist Registration in Anaesthesia, Norway - 26 September 1978

#### MEMBERSHIP IN PROFESSIONAL SOCIETIES

Norwegian Medical Association  
British Medical Association  
South African Medical Association  
California Medical Association  
California Society of Anesthesiologists  
American Society of Anesthesiologists  
Association of University Anesthetist, U.S.A.

#### MEMBERSHIP IN COLLEGE/ACADEMY

The College of Medicine, Faculty of Anaesthetists, South Africa  
- ordinary member from 1975 - to date  
- council member from 1984-1989

#### COURSES ON MEDICAL EDUCATION AND RESEARCH

1. Organization of Teaching and Research in Anaesthesia.  
British Council Course No. 028. Cardiff, Sheffield, London and  
Oxford, United Kingdom. 11-23 May 1980.
2. Medical Education.  
Dundee, Scotland. 7-14 September 1982.

#### COMMITTEE MEMBERSHIP, FACULTY OF MEDICINE, UNIVERSITY OF NATAL

1. Research Committee 1981 - 1984, 1986 - 1988.
2. Admissions Committee 1981 - 1988.
3. The Mary Weston Trust Committee 1981 - 1984. 1986.
4. Head of Committee, Electron Microscopy Unit Committee 1981 - 1986.
5. Academic Support and Staff Development Committee 1981 - 1986.

#### COMMITTEE MEMBERSHIP, STANFORD UNIVERSITY

1. Education Committee - Department of Anesthesia 1989 - to date  
- Chairman from February 1993 to date
2. Resident Selection Committee - Department of Anesthesia 1989 - to date

#### REVIEWER TO EDITORIAL BOARDS

1. Anesthesiology 1978 to present
2. South African Medical Journal 1980 to present
3. Anesthesia Analgesia 1989 to present
4. Journal of Clinical Anesthesia 1990 to present
5. Journal of Clinical Monitoring 1991 to present

## VISITING PROFESSOR

1. Department of Physiology/Anesthesia, Witwatersrand University  
Nov./Dec. 1981, Johannesburg, South Africa
2. Department of Physiology/Anesthesia, Witwatersrand University  
Nov./Dec. 1982, Johannesburg, South Africa
3. Department of Anesthesia, Bergen University  
3-14 March 1983, Bergen, Norway.
4. Department of Anaesthesia  
10-16 November 1983, University of Zimbabwe, Harare, Zimbabwe
5. Department of Physiology/Anesthesia, Witwatersrand University  
Nov./Dec. 1983, Johannesburg, South Africa
6. Department of Physiology, Cape Town University  
Nov./Dec. 1984, Cape Town, South Africa
7. Department of Physiology/Anesthesia, Witwatersrand University  
Nov./Dec. 1985, Johannesburg, South Africa
8. Queensland Faculty of Anesthesiologists  
5-12 August, 1985, Brisbane, Australia
9. Department of Anesthesia, Flinders University  
13-16 August, 1985, Adelaide, Australia
10. Department of Anesthesia, Melbourne University  
17 August, 1985, Melbourne, Australia
11. Department of Anesthesia, Perth University  
19-22 August, 1985, Perth, Australia
12. Department of Physiology, Cape Town University  
Nov./Dec. 1986, Cape Town, South Africa
13. Department of Physiology/Anesthesia, Witwatersrand University  
Nov./Dec. 1987, Johannesburg, South Africa
14. Department of Anesthesia, University of Natal  
3 July, 1992, Durban, South Africa.
15. Department of Anesthesia, University of Witwatersrand  
12 July, 1992, Johannesburg, South Africa.

16. Department of Anesthesia, University of Natal  
3-13 July, 1993, Durban, South Africa.
17. Department of Anesthesia, University of Yangon (Rangoon)  
25 September-2 October, 1993 Yangon (Rangoon), Myanmar (Burma)
18. Olympic Games Lillehammer February, 1994  
Invited by Norwegian Olympic Committee  
To provide emergency anesthesia as an anesthesiologist at the Olympic Games.  
To give lectures on Acute Anesthesia Management of Traumatic Sports Injuries  
and Acute Post-operative Pain Management  
Lillehammer Hospital, 12-27 February, 1994 Lillehammer, Norway
19. University of Oslo - Chairman Ph.D. Election Committee  
16-17 November 1995 Oslo University, Oslo, Norway

### EXAMINATION BOARD

Member of the Examination Board of the College of Medicine of South Africa  
[FFA (SA)] 1980 - 1988.  
Member of the Examination Board of M.Med degrees in the University of Natal.  
1980 - 1988.

Department of Physiology, Cape Town University - 1984, 1986.

### SOUTH AFRICAN (S.A.) MEDICAL RESEARCH COUNCIL

1. Work Committee on Research 1986
2. Ethical Committee for Institutes (Natal) 1986

### RESEARCH GRANTS

1. S.A. Medical Research Council supported various research projects since 1978  
and annually after 1980.
2. University of Natal Medical Research Grant given annually since 1978.

### INVITED/VISITING LECTURER

1. The influence of three physiotherapy techniques on arterial oxygen tension and  
alveolar pressure during mechanical ventilation.  
South African Society of Anaesthetists  
8-13 October 1974, Durban, South Africa
2. The effect of atropine on the gastro-esophageal sphincter tone in late pregnancy.  
South African Society of Anaesthetists  
8-14 October 1976, Port Elizabeth, South Africa.

3. Free fatty acids and arterial oxygen changes following major injury.  
The Medical Association of South Africa Congress  
10-16 April 1977, Bloemfontein, South Africa.
4. Tracheal soiling following the administration of 50% nitrous oxide and 50% oxygen. Termed relative analgesia.  
The Medical Association of South Africa Congress  
10-16 April 1977, Bloemfontein, South Africa.
5. Fasting gastric volume and acidity associated with gastro-intestinal symptoms.  
The Medical Association of South Africa Congress  
10-16 April 1977. Bloemfontein, South Africa.
6. The effect of commonly used antiemetics on the lower oesophageal sphincter.  
The Medical Association of South Africa Congress  
10-16 April 1977, Bloemfontein, South Africa.
7. Pharmacology of Local Anaesthetics. (New Concepts).  
South African Society of Anaesthetists  
25-30 September 1978, Cape Town, South Africa.
8. The effect of Domperidone on the Lower Oesophageal Sphincter in Man.  
South African Society of Anaesthetists  
25-30 September 1978, South Africa.
9. Acid Aspiration Syndrome.  
Critical Care Symposium, 10 March 1979, Durban, South Africa.
10. The effect of ergometrine on the lower oesophageal sphincter at Caesarean section.  
South African Surgical Research Society Meeting  
11 May 1979, Durban, South Africa.
11. Pharmacokinetics and the Feto-Maternal Unit.  
1st International Perinatal Symposium  
26 May 1979, Durban, South Africa.
12. The effect of ergometrine on the lower oesophageal sphincter at Caesarean section.  
52nd Congress of Medical Association of South Africa  
19 July 1979, Durban, South Africa.
13. A performance evaluation of the Samson Anaesthetic paediatric set.  
Association of University Anaesthetists Congress  
27-29 September 1979, Bloemfontein, South Africa.



14. Prevention of the deleterious effect of atropine on the lower oesophageal sphincter (LOS) by metoclopramide.  
Association of University Anaesthetists Congress  
27-29 September 1979, Bloemfontein, South Africa.
15. Basic pharmacokinetics and the feto maternal unit.  
Association of University Anaesthetists Congress  
27-29 September 1979, Bloemfontein, South Africa.
16. Evaluation of Senior Anaesthetic staff by Housestaff.  
British Council Course on organization of teaching and research  
Royal College of Surgeons, 23 May 1980, London, England.
17. Does domperidone prevent the deleterious effects of atropine sulphate on the lower oesophageal sphincter (LOS)?  
7th World Congress of Anaesthesiologists  
16 September 1980, Hamburg, Germany.
18. Intrathecal saline and morphine sulphate with preservative. (Histological effects on the spinal nerve roots of baboons).  
Physiology and Pharmacological Society Annual Meeting of South Africa  
14-16 October 1981, Johannesburg, South Africa.
19. The Lower Oesophageal Sphincter and the Anesthetist.  
Anesthesia Meeting, Department of Anesthesia, Bergen University  
25 June 1981, Bergen, Norway
20. Das A.D.E. System: Ein neues koaxiales Anaesthesia-System.  
Third International Symposium in Anaesthesia, Hyperalimentation & Intensive Care.  
6-13 February 1982, Zürs, Austria.
21. WY 16225 (Dezocine) - ein Vergleich mit Morphin Zur Schmerzbekämpfung nach Eingriffen im Unterlauch.  
Third International Symposium in Anaesthesia, Hyperalimentation & Intensive Care  
6-13 February 1982, Zürs, Austria.
22. Midazolam for the intravenous induction of anaesthesia in children.  
Sixth European Congress of Anaesthesiology, (p.270)  
14 September 1982, London, England.
23. Trace element concentrations in commonly used intravenous fluids.  
Physiological Society of Southern Africa Annual Congress  
12-15 October 1982, Bloemfontein, South Africa.

24. Antiendotoxin antibodies cross the placenta.  
Physiological Society of Southern Africa Annual Congress  
12-15 October 1982, Bloemfontein, South Africa.
25. Erfahrungen mit der epiduralen ketaminanwendung  
Fourth International Symposium in Anaesthesia, Hyperalimentation & Intensive Care  
12-19 March 1983, Zürs, Austria.
26. An evaluation of the Pulse Contour Method to measure cardiac output.  
Critical Care Society of South Africa (6th Congress)  
9-11 May 1984 Durban, South Africa.
27. Chronic pain, social and medical aspects.  
Zimbabwe Medical Society meeting  
Harare, Zimbabwe 14 November 1983
28. Nausea and vomiting in anesthetic practice.  
Zimbabwe Society of Anesthetic Annual Meeting.  
12 November 1983, University of Zimbabwe, Harare, Zimbabwe
29. Physiology of Nerve Conduction.  
South African Society of Anaesthetists Congress  
1-14 March 1985, Durban, South Africa.
30. The efficacy of Nalbuphine compared to Pethidine for post-operative pain following orthopaedic surgery.  
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1-14 March 1985, Durban, South Africa.
31. Morphine concentration in brain and spinal cord following subarachnoid morphine injection.  
South African Society of Anaesthetists Congress  
1-14 March 1985, Durban, South Africa.
32. Hypoxia causes temporary systemic endotoxaemia in primates.  
South African Society of Anaesthetists Congress  
1-14 March 1985, Durban, South Africa.
33. Septic shock  
Toowomba Medical Association  
5 August 1985, Toowomba Queensland, Australia
34. New concept of septic shock  
Cairns Medical Association  
6 August 1985, Cairns Queensland, Australia

35. New concept in septic shock  
Townsville Medical Association  
8 August 1985, Townsville, Queensland, Australia
36. The physiology and pharmacology of vomiting  
Townsville Medical Association  
9 August 1985, Townsville, Queensland, Australia
37. The physiology and pharmacology of vomiting.  
The Queensland Faculty of Anaesthetists Annual Meeting  
11 August 1985, Brisbane, Australia.
38. The lower oesophageal sphincter and the anaesthetist.  
The Queensland Faculty of Anaesthetists Annual Meeting  
10 August 1985, Brisbane, Australia.
39. The lower oesophageal sphincter and the anesthetist.  
Anesthetic meeting, Flinders University  
13 August 1985, Adelaide, Australia
40. Septic shock  
Medical meeting, Flinders University  
14 August 1985, Adelaide, Australia
41. Septic shock  
Australian Society of Anesthesiology Meeting, Melbourne University  
17 August 1985, Melbourne, Australia
42. New concept in septic shock  
Medical meeting, Perth University  
21 August 1985, Perth, Australia
43. The intraocular pressure and atracurium  
2nd International Atracurium Symposium  
2-5 October 1985, Montreux, Switzerland
44. The Non-respiratory functions of the lung.  
South African Society of University Anaesthetists Congress  
24-27 March 1986, Cape Town, South Africa.
45. Anaesthesia for Hypertensive Pregnant Women.  
South African Society of University Anaesthetists Congress  
24-27 March 1986, Cape Town, South Africa.
46. Diagnosis and Treatment of Anaphylaxis.  
South African Society of University Anaesthetists Congress  
24-27 March 1986, Cape Town, South Africa.

47. Hypoxia induces endotoxaemia in primates.  
Aviation Space Medicine Congress, Bergendal  
8-10 August 1986, Transvaal, South Africa.
48. Endotoxaemia during heat-stress.  
Critical Care Society of Southern Africa Annual Congress  
29 March - 3 April 1987, Port Elizabeth, South Africa.  
(Awarded best presentation)
49. Cerebro-Spinal Fluid Pharmacokinetics of intraspinal morphine in primates.  
European Society Regional Anaesthesia  
23-25 September 1987, Dublin, Ireland.
50. Time course of LPS concentrations in bacteraemia, heat-stress and intestinal ischaemia in primates.  
Critical Care Society of Southern Africa Annual Congress  
25-27 April 1988, Johannesburg, South Africa.
51. Changes in lipopolysaccharide concentrations in Hepatic portal and systemic arterial plasma during intestinal ischemia in monkeys.  
American Society of Anesthesiologists Annual Meeting  
8-12 October 1988, San Francisco, California, U.S.A.
52. Predicting the difficult endotracheal intubation.  
Anaesthetic Refresher Course. Department of Anaesthetics, University of Natal  
5-6 November 1988, Durban, South Africa.
53. The critical volume in acid aspiration.  
American Society of Anesthesiologists Annual Meeting  
14-18 October 1989, New Orleans, Louisiana, U.S.A.
54. Rheumatology Perspectives - Anesthesia Considerations.  
A postgraduate symposium. Fairchild auditorium, Stanford University  
5 October 1991, Stanford, California, U.S.A.
55. New concept in septic shock.  
Department of Anesthesia, Bergen University  
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58. The Laryngeal Mask and Acid Aspiration  
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22-24 May 1993, Monterey, California, U.S.A.
59. Endotoxaemia  
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60. a. Acute Post-Operative Pain Management  
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